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1 A survey of top- k query processing techniques in relational database

Ihab F. Ilyas, George Beskales, Mohamed A. Soliman
October 2008 Computing Surveys (CSUR) . Volume 40 Issue 4

Publisher: ACM

Full text available: Pdf (2.02 MB)

Additional Information: full citation, abstract, r

Bibliometrics: Downloads (6 Weeks): 450, Downloads (12 Months): 450, Cita

Efficient processing of top- k queries is a crucial requirement in many int involve massive amounts of data. In particular, efficient top- k processin multimedia search, and distributed ...

Keywords: Top- k , rank aggregation, rank-aware processing, voting

2 Index-driven similarity search in metric spaces (Survey Article)

Giell R. Hjaltason, Hanan Samet

December 2003 Transactions on Database Systems (TODS) . Volume 28 Issue 4

Publisher: ACM

Full text available: Pdf (650.64 KB)

Additional Information: full citation, abstract, r

Bibliometrics: Downloads (6 Weeks): 33, Downloads (12 Months): 248, Cita

Similarity search is a very important operation in multimedia databases involving complex objects, and involves finding objects in a data set S based on some similarity measure. ...

Keywords: Hierarchical metric data structures, distance-based indexing range queries, ranking, similarity searching

3 Identifying Crosscutting Concerns Using Fan-In Analysis

Marius Marin, Arje Van Deursen, Leon Moeren

December 2007 Transactions on Software Engineering and Methodology . Volume 16 Issue 4

Publisher: ACM

Full text available: Pdf (1.76 MB)

Additional Information: full citation, abstract, r

Bibliometrics: Downloads (6 Weeks): 35, Downloads (12 Months): 417, Cita

Aspect mining is a reverse engineering process that aims at finding cross systems. This article proposes an aspect mining approach based on dete called from many different places, and hence have a high ...

Keywords: Aspect-oriented programming, crosscutting concerns, fan-in

4 Making database systems usable

- ◆ H. V. Jagadish, Adriana Chapman, Aaron Elkiss, Magesh Jayapandian, Yuny June 2007 SIGMOD '07: Proceedings of the 2007 ACM SIGMOD international conference on management of data
Publisher: ACM
Full text available: Mov (71:41 MIN), Pdf (366.14 KB) Additional Information: full citation
Bibliometrics: Downloads (6 Weeks): 131, Downloads (12 Months): 948, Citation C

Database researchers have striven to improve the capability of a database performance and functionality. We assert that the *usability* of a database capability. In this paper, we study why database systems ...

Keywords: database, usability, user interface

5 Communications of the ACM: Volume 51 Issue 3

- ◆ March 2008 Communications of the ACM
Publisher: ACM
Full text available: Digital Edition, Pdf (7.56 MB) Additional Information: full citation
Bibliometrics: Downloads (6 Weeks): 437, Downloads (12 Months): 1224, Citation C

6 Automated creation of a forms-based database query interface

- August 2008 Proceedings of the VLDB Endowment, Volume 1 Issue 1
Publisher: VLDB Endowment
Full text available: Pdf (583.55 KB) Additional Information: full citation, abstract, references
Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 0, Citation C

Forms-based query interfaces are widely used to access databases today. This interface is often a key step in the deployment of a database. Each form is designed to express only a very limited range of queries. ...

7 Communications of the ACM: Volume 51 Issue 10

- ◆ October 2008 Communications of the ACM
Publisher: ACM
Full text available: Digital Edition, Pdf (7.16 MB) Additional Information: full citation
Bibliometrics: Downloads (6 Weeks): 11068, Downloads (12 Months): 11068, Citation C

8 Information fusion for wireless sensor networks: Methods, models, a

- ◆ Eduardo F. Nakamura, Antonio A. F. Loureiro, Alejandro C. Frery September 2007 Computing Surveys (CSUR), Volume 39 Issue 3
Publisher: ACM
Full text available: Pdf (1.20 MB) Additional Information: full citation, abstract, references
Bibliometrics: Downloads (6 Weeks): 471, Downloads (12 Months): 3966, Citation C

Wireless sensor networks produce a large amount of data that needs to

assessed according to the application objectives. The way these data are nodes is a fundamental issue. Information fusion arises ...

Keywords: Information fusion, architectures and models, data aggregation, sensor networks

- 9 [Astrolabe: A robust and scalable technology for distributed system management](#)

 Robbert Van Renesse, Kenneth P. Birman, Werner Vogels
May 2003 [Transactions on Computer Systems \(TOCS\)](#), Volume 21 Issue 2
Publisher: ACM
Full text available:  Pdf (341.62 KB) Additional Information: full citation, abstract, citation

Bibliometrics: Downloads (6 Weeks): 55, Downloads (12 Months): 355, Citation Count: 10

Scalable management and self-organizational capabilities are emerging from the generation of large-scale, highly dynamic, distributed applications. We introduce a distributed information management system called Astrolabe. ...

Keywords: Aggregation, epidemic protocols, failure detection, gossip, information dissemination, scalability

- 10 [Communications of the ACM: Volume 51 Issue 7](#)

 July 2008 [Communications of the ACM](#)
Publisher: ACM
Full text available:  Digital Edition,  Pdf (6.54 MB) Additional Information: full citation, abstract, citation

Bibliometrics: Downloads (6 Weeks): 4818, Downloads (12 Months): 4818, Citation Count: 10

- 11 [Optimized stratified sampling for approximate query processing](#)

 Surajit Chaudhuri, Gautam Das, Vivek Narasayya
June 2007 [Transactions on Database Systems \(TODS\)](#), Volume 32 Issue 3
Publisher: ACM
Full text available:  Pdf (748.77 KB) Additional Information: full citation, abstract, citation

Bibliometrics: Downloads (6 Weeks): 43, Downloads (12 Months): 234, Citation Count: 10

The ability to approximately answer aggregation queries accurately and efficiently is a key challenge in decision support and data mining tools. In contrast to previous sampling approaches, we formulate the sampling problem as an optimization problem where, ...

Keywords: Random sampling, approximation, query processing

- 12 [Dynamic data fusion for future sensor networks](#)

 Umakishore Ramachandran, Rajnish Kumar, Matthew Wolenzik, Brian Goetz, Shrinivas Shinde, Phillip Hutto, Arnab Paul
August 2006 [Transactions on Sensor Networks \(TOSN\)](#), Volume 2 Issue 3
Publisher: ACM
Full text available:  Pdf (2.44 MB) Additional Information: full citation, abstract, citation

Bibliometrics: Downloads (6 Weeks): 28, Downloads (12 Months): 362, Citation Count: 10

DFuse is an architectural framework for dynamic application-specified d
bridges an important abstraction gap for developing advanced fusion ap
account the dynamic nature of applications and sensor ...

Keywords: Sensor network, data fusion, energy awareness, in-network
platform, role assignment

13 MRNet: A Software-Based Multicast/Reduction Network for Scalable

Philip C. Roth, Dorian C. Arnold, Barton P. Miller

November 2003 SC '03: Proceedings of the 2003 ACM/IEEE conference on S
Publisher: IEEE Computer Society

Full text available:  Pdf (176.52 KB)

Additional Information: [full citation](#), [abstract](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 19, Citation (

We present MRNet, a software-based multicast/reduction network for bi
and system administration tools. MRNet supports multiple simultaneous
communication operations. MRNet is flexible, allowing tool ...

Keywords: Scalability, tools, multicast, reduction, aggregation

14 Communications of the ACM: Volume 51 Issue 2

 February 2008 Communications of the ACM

Publisher: ACM

Full text available:  Digital Edition ,  Pdf (3.89 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 359, Downloads (12 Months): 2379, Citation (

15 Design and evaluation of a wide-area event notification service

 Antonio Carzaniga, David S. Rosenblum, Alexander L. Wolf

 August 2001 Transactions on Computer Systems (TOCS) , Volume 19 Issue

Publisher: ACM

Full text available:  Pdf (1.08 MB) Additional Information: [full citation](#), [abstract](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 46, Downloads (12 Months): 280, Citation (

The components of a loosely coupled system are typically designed to o
responding to asynchronous events. An event notification service is an e
infrastructure that supports the construction ...

Keywords: content-based addressing and routing, event notification, p

16 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 CASCON '97: Proceedings of the 1997 conference of the C
Collaborative research

Publisher: IBM Press

Full text available:  Pdf (4.21 MB) Additional Information: [full citation](#), [abstract](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 57, Downloads (12 Months): 649, Citation (

Understanding distributed applications is a tedious and difficult task. Visual time diagrams are often used to obtain a better understanding of the execution. The visualization tool we use is Poet, an event ...

17 Global grid monitoring: the EGEE/WLCG case

 Alexandre Nóbrega Duarte, Piotr Nyczek, Antonio Retico, Domenico Vicinari
June 2007 GMW '07: Proceedings of the 2007 workshop on Grid monitoring
Publisher: ACM

Full text available:  Pdf (307.31 KB) Additional Information: [full citation](#), [abstract](#), [bibliometrics](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 134, Citation

Grids have the potential to revolutionize computing by providing ubiquitous computational services and resources. However, grid systems are extremely prone to failures. In this paper we present a tool able to ...

Keywords: EGEE, WLCG, grid monitoring, service availability monitoring

18 Semi-automated discovery of application session structure

 Jayanthkumar Kannan, Jaeyeon Jung, Vern Paxson, Can Emre Kokeal
October 2006 IMC '06: Proceedings of the 6th ACM SIGCOMM conference on
Publisher: ACM

Full text available:  Pdf (278.77 KB) Additional Information: [full citation](#), [abstract](#), [bibliometrics](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 82, Citation

While the problem of analyzing network traffic at the granularity of individual sessions has received considerable previous work and tool development, understanding traffic of user-initiated sessions comprised ...

Keywords: anomaly detection, application sessions, traffic analysis

19 Communications of the ACM: Volume 51 Issue 8

 August 2008 Communications of the ACM
Publisher: ACM

Full text available:  Digital Edition ,  Pdf (6.85 MB) Additional Information: [full citation](#), [abstract](#), [bibliometrics](#)

Bibliometrics: Downloads (6 Weeks): 971, Downloads (12 Months): 1562, Citation

20 Schema modelling for automatic generation of multimedia presentations

 Augusto Celentano, Ombretta Gagliano
July 2002 SEKE '02: Proceedings of the 14th international conference on
knowledge engineering
Publisher: ACM

Full text available:  Pdf (169.46 KB) Additional Information: [full citation](#), [abstract](#), [bibliometrics](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 30, Citation

Multimedia documents are an effective way to present different kinds of information. The integration of different media types gives more expressive power and originality. A multimedia report is a multimedia presentation ...

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